FILE COPY

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Westfield
Westfield Executive Park
53 Southampton Road
Westfield, MA 01085
Tel: (413)572-4000

CHECKED FOR COMPLETENESS OF PARAMETERS ORDERED BY:
2/4/11

TestAmerica Job ID: 360-34709-1
Client Project/Site: Olin Chemical Superfund GW quarterly

For:
Olin Corporation
PO BOX 248
Charleston, Tennessee 37310-0248

Attn: Mr. James Cashwell

Authorized for release by:
07/05/2011 12:59:19 PM
Joe Chimi
Report Production Representative
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Designee for

Becky Mason
Project Manager II
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MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Westfield** Project #: **360-34709-1**

Project Location: RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

360-34709-(1-2)

Matrices: [X] Groundwater/Surface Water [ ] Soil/Sediment [ ] Drinking Water [ ] Air [ ] Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A [ ]	7470/7471 Hg CAM III B [ ]	Mass DEP VPH CAM IV A [ ]	8081 Pesticides CAM V B [ ]	7196 Hex Cr CAM VI B [ ]	Mass DEP APH CAM IX A [ ]
8270 SVOC CAM II B [ ]	7010 Metals CAM III C [ ]	Mass DEP EPH CAM IV B [ ]	8151 Herbicides CAM V C [ ]	8330 Explosives CAM VIII A [ ]	TO-15 VOC CAM IX B [ ]
6010 Metals CAM III A [X]	6020 Metals CAM III D [ ]	8082 PCB CAM V A [ ]	9014 Total Cyanide/PAC CAM VI A [ ]	332.0 Perchlorate CAM VIII B [ ]	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	[X] Yes [ ] No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	[X] Yes [ ] No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	[X] Yes [ ] No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	[X] Yes [ ] No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	[ ] Yes [ ] No [ ] Yes [ ] No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	[X] Yes [ ] No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

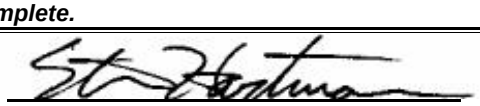
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	[X] Yes [ ] No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	[X] Yes [ ] No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	[ ] Yes [X] No

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:  Position: Laboratory Director

Printed Name: Steven C. Hartmann Date: 7/5/11 12:15

This form has been electronically signed and approved

Job ID: 360-34709-1

Laboratory: TestAmerica Westfield

Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/24/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2 C of the required temperature or method specified range. For samples with a specified temperature of 4 C, samples with a temperature ranging from just above freezing temperature of water to 6 C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC and State standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DISSOLVED METALS

Samples OC-PZ-24 (360-34709-1) and OC-PZ-25 (360-34709-2) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were analyzed on 06/27/2011.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No difficulties were encountered during the dissolved metals analyses.

All quality control parameters were within the acceptance limits.

ANIONS

Samples OC-PZ-24 (360-34709-1) and OC-PZ-25 (360-34709-2) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 06/28/2011.

Samples OC-PZ-24 (360-34709-1)[10X] and OC-PZ-25 (360-34709-2)[10X] required dilution prior to analysis due to high target concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

AMMONIA

Samples OC-PZ-24 (360-34709-1) and OC-PZ-25 (360-34709-2) were analyzed for ammonia in accordance with Lachat 107-06-1B. The samples were prepared and analyzed on 07/01/2011.

Samples OC-PZ-24 (360-34709-1)[10X] and OC-PZ-25 (360-34709-2)[10X] required dilution prior to analysis due to high concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTIVITY

Job ID: 360-34709-1 (Continued)

Laboratory: TestAmerica Westfield (Continued)

Samples OC-PZ-24 (360-34709-1) and OC-PZ-25 (360-34709-2) were analyzed for specific conductivity in accordance with SM20 2510B.
The samples were analyzed on 06/30/2011.

No difficulties were encountered during the conductivity analyses.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Olin Corporation
Project/Site: Olin Chemical Superfund GW quarterly

TestAmerica Job ID: 360-34709-1

Client Sample ID: OC-PZ-24 — Lab Sample ID: 360-34709-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	18		5.0	0.65	ug/L	1		6010B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	630		20	20	mg/L	10		300.0	Total/NA
Chloride	20		1.0	1.0	mg/L	1		300.0	Total/NA
Ammonia	57		1.0	1.0	mg/L	10		L107-06-1B	Total/NA
Specific Conductance	1900		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA

Client Sample ID: OC-PZ-25 — Lab Sample ID: 360-34709-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	9.4		5.0	0.65	ug/L	1		6010B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	410		20	20	mg/L	10		300.0	Total/NA
Chloride	20		1.0	1.0	mg/L	1		300.0	Total/NA
Ammonia	56		1.0	1.0	mg/L	10		L107-06-1B	Total/NA
Specific Conductance	1400		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA

Method Summary

Client: Olin Corporation
TestAmerica Job ID: 360-34709-1
Project/Site: Olin Chemical Superfund GW quarterly

Method	Method Description	Protocol	Laboratory
6010B	Dissolved Metals	SW846	TAL WFD
300.0	Chloride & Sulfate	40CFR136A	TAL WFD
L107-06-1B	Nitrogen Ammonia	LACHAT	TAL WFD
SM 2510B	Conductivity, Specific Conductance	SM	TAL WFD

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
LACHAT = LACHAT
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Sample Summary

Client: Olin Corporation
TestAmerica Job ID: 360-34709-1
Project/Site: Olin Chemical Superfund GW quarterly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-34709-1	OC-PZ-24	Water	06/24/11 11:30	06/24/11 16:40
360-34709-2	OC-PZ-25	Water	06/24/11 12:25	06/24/11 16:40

Client: Olin Corporation
Project/Site: Olin Chemical Superfund GW quarterly

TestAmerica Job ID: 360-34709-1

Method: 6010B - Dissolved Metals - Dissolved

Client Sample ID: OC-PZ-24
Date Collected: 06/24/11 11:30
Date Received: 06/24/11 16:40

Lab Sample ID: 360-34709-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		100	13	ug/L			06/27/11 19:27	1
Chromium	**18**		5.0	0.65	ug/L			06/27/11 19:27	1

Client Sample ID: OC-PZ-25
Date Collected: 06/24/11 12:25
Date Received: 06/24/11 16:40

Lab Sample ID: 360-34709-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		100	13	ug/L			06/27/11 19:30	1
Chromium	**9.4**		5.0	0.65	ug/L			06/27/11 19:30	1

General Chemistry

Client Sample ID: OC-PZ-24
Lab Sample ID: 360-34709-1
Date Collected: 06/24/11 11:30
Matrix: Water
Date Received: 06/24/11 16:40

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	630		20	20	mg/L			06/28/11 02:44	10
Chloride	20		1.0	1.0	mg/L			06/28/11 02:29	1
Ammonia	57		1.0	1.0	mg/L		07/01/11 10:46	07/01/11 15:58	10
Specific Conductance	1900		1.0	1.0	umhos/cm			06/30/11 07:50	1

Client Sample ID: OC-PZ-25
Lab Sample ID: 360-34709-2
Date Collected: 06/24/11 12:25
Matrix: Water
Date Received: 06/24/11 16:40

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	410		20	20	mg/L			06/28/11 03:14	10
Chloride	20		1.0	1.0	mg/L			06/28/11 02:59	1
Ammonia	56		1.0	1.0	mg/L		07/01/11 10:46	07/01/11 15:59	10
Specific Conductance	1400		1.0	1.0	umhos/cm			06/30/11 07:50	1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

QC Association Summary

Client: Olin Corporation
Project/Site: Olin Chemical Superfund GW quarterly

TestAmerica Job ID: 360-34709-1

Metals

Analysis Batch: 76027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 360-76027/1	Lab Control Sample	Total/NA	Water	6010B	
MB 360-76027/2	Method Blank	Total/NA	Water	6010B	
LCSD 360-76027/4	Lab Control Sample Dup	Total/NA	Water	6010B	
360-34709-1	OC-PZ-24	Dissolved	Water	6010B	
360-34709-2	OC-PZ-25	Dissolved	Water	6010B	

General Chemistry

Analysis Batch: 76104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 360-76104/5	Method Blank	Total/NA	Water	300.0	
LCS 360-76104/6	Lab Control Sample	Total/NA	Water	300.0	
360-34709-1	OC-PZ-24	Total/NA	Water	300.0	
360-34709-1	OC-PZ-24	Total/NA	Water	300.0	
360-34709-2	OC-PZ-25	Total/NA	Water	300.0	
360-34709-2	OC-PZ-25	Total/NA	Water	300.0	

Analysis Batch: 76219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 360-76219/1	Method Blank	Total/NA	Water	SM 2510B	
LCS 360-76219/2	Lab Control Sample	Total/NA	Water	SM 2510B	
360-34709-1	OC-PZ-24	Total/NA	Water	SM 2510B	
360-34709-2	OC-PZ-25	Total/NA	Water	SM 2510B	

Prep Batch: 76307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 360-76307/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 360-76307/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
360-34709-1	OC-PZ-24	Total/NA	Water	Distill/Ammonia	
360-34709-2	OC-PZ-25	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 76342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 360-76307/1-A	Method Blank	Total/NA	Water	L107-06-1B	76307
LCS 360-76307/2-A	Lab Control Sample	Total/NA	Water	L107-06-1B	76307
360-34709-1	OC-PZ-24	Total/NA	Water	L107-06-1B	76307
360-34709-2	OC-PZ-25	Total/NA	Water	L107-06-1B	76307

Method: 6010B - Dissolved Metals

Lab Sample ID: MB 360-76027/2
Matrix: Water
Analysis Batch: 76027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		100	13	ug/L			06/27/11 18:28	1
Chromium	ND		5.0	0.65	ug/L			06/27/11 18:28	1

Lab Sample ID: LCS 360-76027/1
Matrix: Water
Analysis Batch: 76027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	5000	4880		ug/L		98	80 - 120
Chromium	1000	996		ug/L		100	80 - 120

Lab Sample ID: LCSD 360-76027/4
Matrix: Water
Analysis Batch: 76027

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aluminum	5000	4860		ug/L		97	80 - 120	0	20
Chromium	1000	992		ug/L		99	80 - 120	0	20

Method: 300.0 - Chloride & Sulfate

Lab Sample ID: MB 360-76104/5
Matrix: Water
Analysis Batch: 76104

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		2.0	2.0	mg/L			06/28/11 00:28	1
Chloride	ND		1.0	1.0	mg/L			06/28/11 00:28	1

Lab Sample ID: LCS 360-76104/6
Matrix: Water
Analysis Batch: 76104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	80.0	82.1		mg/L		103	85 - 115
Chloride	40.0	40.8		mg/L		102	85 - 115

Method: L107-06-1B - Nitrogen Ammonia

Lab Sample ID: MB 360-76307/1-A
Matrix: Water
Analysis Batch: 76342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 76307

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.10	0.10	mg/L		07/01/11 10:46	07/01/11 15:36	1

Method: L107-06-1B - Nitrogen Ammonia (Continued)

Lab Sample ID: LCS 360-76307/2-A
Matrix: Water
Analysis Batch: 76342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 76307

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia	10.0	9.46		mg/L		95	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 360-76219/1
Matrix: Water
Analysis Batch: 76219

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			06/30/11 07:50	1

Lab Sample ID: LCS 360-76219/2
Matrix: Water
Analysis Batch: 76219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Specific Conductance	1410	1420		umhos/cm		101	85 - 115

DILUTION LOGS

TestAmerica Westfield

Analytical Dilution Preparation Log

Date: 6-27-11

Analyst Initials	Date	Method	LIMs Sample ID	Rpt'd Dil.	Sample Aliquot 1	Units	Final Volume 1	Units	Serial Dilution				Comments
									Sample Aliquot 2	Units	Final Volume 2	Units	
PJO	6-27-11	350.0	34709 B1	10X	1	mL	10	mL					
↓	↓	↓	↓ B2	10X	1	mL	10	mL					

entries completed by day [new page each day]

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07/05/2011

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TestAmerica Westfield

Analytical Dilution Preparation Log

Date: 7-1-11

Analyst Initials	Date	Method	LIMs Sample ID	Rpt'd Dil.	Sample Aliquot 1	Units	Final Volume 1	Units	Serial Dilution				Comments
									Sample Aliquot 2	Units	Final Volume 2	Units	
RE	7-1-11	NH3	34709C1A	10X	1	mL	10	mL					
↓	↓	↓	↓ C2A	10X	1	mL	10	mL					

entries completed by day [new page each day]

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Lab Chronicle

Client: Olin Corporation
Project/Site: Olin Chemical Superfund GW quarterly

TestAmerica Job ID: 360-34709-1

Client Sample ID: OC-PZ-24

Lab Sample ID: 360-34709-1

Date Collected: 06/24/11 11:30

Matrix: Water

Date Received: 06/24/11 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Dissolved	Analysis	6010B		1	76027	06/27/11 19:27	TJS	TAL WFD
Total/NA	Analysis	300.0		1	76104	06/28/11 02:29	RWE	TAL WFD
Total/NA	Analysis	300.0		10	76104	06/28/11 02:44	RWE	TAL WFD
Total/NA	Analysis	SM 2510B		1	76219	06/30/11 07:50	AMS	TAL WFD
Total/NA	Prep	Distill/Ammonia			76307	07/01/11 10:46	RWE	TAL WFD
Total/NA	Analysis	L107-06-1B		10	76342	07/01/11 15:58	RWE	TAL WFD

Client Sample ID: OC-PZ-25

Lab Sample ID: 360-34709-2

Date Collected: 06/24/11 12:25

Matrix: Water

Date Received: 06/24/11 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Dissolved	Analysis	6010B		1	76027	06/27/11 19:30	TJS	TAL WFD
Total/NA	Analysis	300.0		1	76104	06/28/11 02:59	RWE	TAL WFD
Total/NA	Analysis	300.0		10	76104	06/28/11 03:14	RWE	TAL WFD
Total/NA	Analysis	SM 2510B		1	76219	06/30/11 07:50	AMS	TAL WFD
Total/NA	Prep	Distill/Ammonia			76307	07/01/11 10:46	RWE	TAL WFD
Total/NA	Analysis	L107-06-1B		10	76342	07/01/11 15:59	RWE	TAL WFD

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Certification Summary

Client: Olin Corporation
TestAmerica Job ID: 360-34709-1
Project/Site: Olin Chemical Superfund GW quarterly

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	North Carolina	North Carolina DENR	4	647
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried				
		New Hampshire (NELAC) prim.	Mass	Conn	Florida (NELAC)	North Carolina
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP			NP	
SM 4500 Cl F	Chlorine, Residual		NP			
SM 9215E	Heterotrophic Plate Count (SimPlate)		P			
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP			
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P			
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P			
1103.1	E.coli		ambient/ source			
Enterolert	Enterococcus					
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	NP/P		
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	NP/P		
6010B	Metals (ICP)(list upon request)	NP/SW		NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	NP/P		
7470A	Mercury (CVAA)	NP		NP		
7471A	Mercury (CVAA)	SW		SW		
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP	NP/P		
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		NP/P		
3010A	Preparation, Total Metals	NP/P		NP/P		
3020A	Preparation, Total Metals	NP/P/SW		NP/P/SW		
3050B	Preparation, Metals	SW		SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	P		
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	NP		
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP		NP		
3546	Microwave Extraction	SW				
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		NP		
3540C	Soxhlet Extraction	SW				
3550B	Ultrasonic Extraction	SW		SW		
600/4-81-045	Polychlorinated Biphenyls (PCBs) (GC)		NP	NP		
8081A	Organochlorine Pesticides (GC)(list upon request)	NP/SW		NP/SW		
8082	PCBs by Gas Chromatography(list upon request)	NP/SW		NP/SW		
8270C	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)			NP/SW		
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	P		
524.2	Trihalomethane compounds	P	P	P		
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	NP		
5035	Closed System Purge and Trap	SW		SW		
5030B	Purge and Trap	NP		NP		
8260B	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
180.1	Turbidity, Nephelometric	P	P	P		
300	Anions, Ion Chromatography	NP/P	NP/P	NP/P		
410.4	COD	NP	NP	NP		
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	NP		
7196A	Chromium, Hexavalent	NP/SW		NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		NP		
9040B	pH	NP		NP		
9045C	pH	SW		SW		
L107041C	Nitrogen, Nitrate	NP	P	NP/P		
L107-06-1B	Nitrogen Ammonia	NP	NP	NP/P		
L204001A CN	Cyanide, Total	P	NP/P	NP/P		
L210-001A	Phenolics, Total Recoverable	NP	NP	NP		
SM 2320B	Alkalinity	NP/P	NP/P	NP/P		
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	NP/P		
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	NP/P		
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	NP		
SM 3500 CR D	Chromium, Hexavalent	NP		NP		
SM 4500 H+ B	pH	NP/P	NP/P	NP/P		
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	NP/P		
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	NP/P		
SM 4500 P E	Phosphorus, Total	NP	NP	NP		
SM 4500 S2 D	Sulfide, Total	NP		NP		
SM 5210B	BOD, 5-Day	NP	NP	NP		
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	NP/P		

Not all organic compounds are accreditied under NELAC
For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory
The lab carries additional accreditations with several states. This is the laboratories typcial listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 360-34709-1

Login Number: 34709

List Number: 1

Creator: Ard, Vanessa L

List Source: TestAmerica Westfield

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Form

006030

●53 Southampton Road
Westfield, MA 01085
(P) 413-572-4000
(F) 413-572-3707
Westfield

●240 Bear Hill Rd., Suite 104
Waltham, MA 02451
(P) 781-466-6900
(F) 781-466-6901
Boston - Service Center

Client: Olin / Mantec
Address: 51 Eames St
Wilmington MA 01887
Phone: Fax:

Client Project #: 6107110016
Site ID & State: Peter Thompson / James
Reports Sent To: James Cashwell
Email: Email Rpt: ☐

Job# 320-34709 Quote# PO#

Shaded areas for office use
Invoice same as Report to? ☐
If invoice contact or address different, note in *Comments*

Comments *(Special Instructions)*

Please print legibly. If the analytical requests are not clearly defined on the chain-of-custody, the turnaround time will begin after all questions have been satisfactorily answered.

Requested Turnaround Time (PLEASE SPECIFY)
STANDARD X RUSH ☐ *(Lab Approval Required)*

Regulatory Programs/Presumptive Certainty/QC Forms
MADEP MCP ☒ GW1/S1 ☐ PWS DEP Forms ☐
CTDEP RCP ☐ CT RSR ☐ EDD Required ☐
Std Rpt (L1) ☐ Rpt + QC(L2./MCP ☐ CLP Rpt (L3 or L4) ☐

500-series for drinking water
600-series for wastewater, NPDES
6000-series for groundwater, soil, waste
8000-series for groundwater, soil, waste
Use comments section to further define.

Sample Type Codes: WW-Wastewater, DW-Drinking Water, SW-Surface Water, GW-Groundwater, LW Lab Water, A-Air, S-Solids/Soil O-Oil, "Z"- Other

Sample I.D.	Sample Type	Sampler's Initials	Date Time Collected	pH ✓ (lab use only)	Grab	Comp.	# Containers	Plastic(P) or Glass(G)	Preservative: NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >12	Na2S2O3	None / 4° C	524 / 624 / 8260	525 / 625 / 8270	PCB / Pest / Herbicide	EPH / VPH	DRO / GRO / ETPH	Metals (Please Specify)	Mercury Dis Al/Cr	General Chemistry	Bacteriological	Toxicity Sp Cond	Chloride/Sulfate	Ammonia-Nitrogen
OC-PZ-24	GW	cm	6/24/11 1130		X		3	P		1	1				1							X			X	X	X
OC-PZ-25	GW	cm	6/24/11 1225		X		3	P		1	1				1							X			X	X	X

Comments:
June 2011 Quarterly
Ammonia-Nitrogen: Lac 107-06-1B
Chloride/Sulfate: EPA-300
Sp Cond: SM 2510B
Dis Metals: 6010B
(Field Filtered)
Contact Becky M. with any Questions

Sampled by (print): Chris Mazzolini
Signature:

Relinquished by:	Date: 6/24/11	Time: 1245	Received by:	Date: 6-23-11	Time: 1245
Relinquished by:	Date: 6-23-11	Time: 1640	Received by:	Date: 6-24-11	Time: 1640
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Cooler ? Y / N
MADEP Requirement Samples iced? Y / N
Temp @ receipt: 0.6 °C
Preservation / pH checked? Y / N
By: Date:

TestAmerica Westfield

White = Lab file Pink = Customer copy

WI-QA-010-REV 5